

AERONAUTICAL COMMUNICATIONS PANEL (ACP)

WORKING GROUP N - NETWORKING

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Agenda Item 3: Co-ordination with other bodies

Summary of State responses concerning AMHS MD registration

Presented by the Panel Secretary

Prepared by the WGN Rapporteur and Panel Secretary

Summary

This working paper aims at providing a summary of the information sent by States in reply to State Letter SP 54/1 - 03/39 concerning the establishment of an ICAO register for addresses and management domain identifiers used in the air traffic services (ATS) message handling system (AMHS).

The ACP WGN is invited to note the information provided and to develop an appropriate set of procedures for the management and update of this Register information.

1. INTRODUCTION

To facilitate the orderly, systematic and worldwide implementation of the AMHS, which is to replace ageing AFTN and CIDIN, ICAO is in the process of establishing registers for management domains (MDs) and addressing schemes.

The ICAO Secretary General sent in May 2003 a State Letter referenced SP 54/1-03/39 concerning the establishment of an ICAO register for addresses and management domain identifiers used in the air traffic services (ATS) message handling system (AMHS). The letter requested States to complete and return the pro formas attached to the letter for the purposes of PRMD-name registration and declaration of addressing schemes.

This working paper aims at providing a summary of the information sent by States in reply to State Letter, for responses received until 14th October 2003.

2. BACKGROUND

2.1. Structure of the ICAO Register of AMHS MDs and Addressing Schemes

The Register will maintain a list of all Management Domains contributing to the AMHS, and of the MD identifiers allocated to each ICAO Contracting State, or ATSO operating under the aegis of ICAO, for the implementation of an AMHS Management Domain.

In practice, the Register is composed of a set of tables:

- heading and explanatory pages, followed by the Register itself;
- a general table called “Table of PRMDs and Addressing Schemes Used”, which provides the MD names and addressing schemes selected for each AMHS MD;
- a set of detailed tables, one for each State or Organization having declared the use of the CAAS addressing scheme. The name of each detailed table is constructed by concatenation of the word “Table” with the relevant PRMD-name.

These tables are currently maintained as worksheets within a Microsoft Excel® folder. However this does not imply any assumption about the final format of published information.

An “entry” in the Register corresponds to a row in the table called “Table of PRMDs and Addressing Schemes Used”. There is one row for each pair of Nationality Letters defined in ICAO Document 7910 to identify a State or Organisation, or for each 4 to 7-letter designator in case two letters are ambiguous. There is consequently at least one entry per State, but there can be several entries for a single State when it is identified by several pairs of Nationality Letters (e.g. Germany: ED and ET).

To reduce the size of the general table, a “wild card”¹ single character consisting of an asterisk (“*”) is used where appropriate (e.g. United States are identified by the pair of Nationality Letters K*, instead of listing the 24 character pairs from KA to KZ actually in use).

¹ A “wild card” character is a character that can be replaced by any alphabetical character.

The pro forma attached to the State Letter addressed the two topics subject to inclusion in the Register, i.e. PRMD-name registration and declaration of addressing scheme.

2.2. PRMD-name registration

A default PRMD-name value has been reserved for each State in the Draft ICAO Register of AMHS MDs, following the provisions of ICAO Document 9705. This default value is based on the Nationality Letters defined for each State in ICAO Document 7910.

The Draft Register was attached to the State Letter. It was already populated with default values, and for a few States/Organizations, with “pre-declared” values resulting from earlier AMHS studies such as the SPACE project².

States had the choice, either to confirm use of the default value, or to propose another PRMD-name identifier. The ICAO Secretariat would then confirm the adoption of the proposed name, or alternatively advise the State if the proposed identifier were improper or not unique.

2.3. Declaration of AMHS addressing schemes

States had the choice to select either the Common AMHS Addressing Scheme (CAAS), or to the XF-addressing scheme, both being defined in Doc 9705.

In the pro forma CAAS was recommended, and XF was considered as the default value in case of no reply by the State. States selecting CAAS had to provide a detailed addressing information associating a group of location indicators to an “organization-name” value.

3. SUMMARY OF RESPONSES

3.1. Overall number and general status of responses

55 responses were received by the ICAO Secretariat, for 54 States and Organizations. China provided two responses, one for China (Hong-Kong, nationality letters VH) and one for China (nationality letters ZB, ZG, ZH, ZL, ZP, ZS, ZU, ZW, ZY). The detailed list of responding States is provided in Appendix A.

Among these, three States replied stating that they would provide information at a later opportunity (Colombia, Kenya, United Kingdom). One of them nevertheless confirmed the default PRMD-name (Colombia).

Two States replied stating that they had no objection or no input (Pakistan, Philippines).

Four States provided apparently incomplete responses (Belgium, Cameroon, Cyprus, Panama).

3.2. Affected entries in the Register

The remaining 45 States and Organizations replied with respect to 79 entries in the Register, i.e. 79 nationality letter pairs or designators.

Among these four entries were new and previously missing in the Table (EUCB, EUCH, Mayotte, French Southern and Antarctic Lands).

² The SPACE project (“Study and Planning of AMHS Communications in Europe”) was performed in the European Union “Trans-European Networks – transport” framework by a consortium composed of Aena, DFS, Eurocontrol, NATS and STNA. SPACE outcomes have been reported to the former ATNP and ACP working structures.

States and Organizations that provided responses for multiple entries in the Register are listed in the Table below.

Name of State or Organization	Number of multiple entries	Nationality Letters / Designators
China and Hong Kong (China)	10	VH, ZB, ZG, ZH, ZL, ZP, ZS, ZU, ZW, ZY
Eurocontrol	4	EBBD, EUCB, EUCH, LFPYZMF
France	9	AF, FMCZ, FME*, LF, NL, NT, NW, SO, TF
Germany	2	ED, ET
Malaysia	2	WB, WM
Russia	11	UE, UH, UI, UL, UMKK, UN, UO, UR, US, UU, UW
Spain	3	GC, GE, LE

3.3. PRMD-names

The responses provided a set of 58 distinct PRMD-name values, thereby explicitly defining 58 AMHS MDs³.

Among these, the vast majority (46 names) has retained the default PRMD-name value, making use of the relevant Nationality Letters. The responses from the two States saying that they had no objection (Pakistan, Philippines) may also be considered as endorsing the default PRMD-name value, suming up to an overall number of 48 AMHS MDs have responded that they will use the default PRMD-name value consisting of their Nationality Letters

12 PRMD-name values different from the Nationality Letters of the considered States have been defined. It may be noted that most of these (10 out of 12) are located in the ICAO EUR Region.

3.4. AMHS Addressing Schemes

Among the 58 (or 60) above mentioned AMHS MDs, 23 domains replied that they will operate with the recommended CAAS scheme. This may be further analyzed as follows:

- 9 States/Organizations replied with CAAS - Multiple Organisation-name Values (Argentina, Bahrain, Brazil, Eurocontrol, France, Germany, Portugal, Russia, Spain;
- 11 States replied with CAAS - Single Organisation-name Value (Austria, Croatia, Cuba, Cyprus, Egypt, Greece, Hong Kong (China), Jordan, Mexico, Netherlands, Switzerland);
- 2 States replied with CAAS and organisation-name values which could be difficult to validate (Maldives, Tunisia);
- Additionally one State (Cameroon) selected CAAS but did not provide a detailed table. Therefore its response could not be processed.

³ However it should be noted that this does not allow to make any assumption about the date at which these MDs will actually start operational AMHS service

The remaining 35 (or 37) AMHS MDs will operate with the default XF addressing scheme.

3.5. Processing of received information

The information received from States and reported above has been input in the Register, thereby updating where appropriate the default or pre-determined values previously contained in the Register.

The information was input in three separate types of action:

- Update of the general table “Table of PRMDs and Addressing Schemes Used”, for each received response, including also incomplete responses. Comments were inserted to highlight specific cases;
- Creation of a detailed table for all States/Organizations declaring for the first time their use of CAAS;
- Update (when needed) of the detailed tables for States/Organizations having pre-declared use of CAAS.

The updated general table “Table of PRMDs and Addressing Schemes Used” is provided as Appendix B to this paper. The updated information is identified by the use of **bold characters**. Default and pre-declared values have been left in normal font characters.

4. FUTURE WORK

The information provided above will be subject to changes in the future:

- Additional States may provide AMHS MD and addressing information for registration by ICAO, instead of using default values,
- States having declared use of XF addressing scheme may decide to migrate to CAAS,
- CAAS tables may be subject to changes,
- Etc.

The tables building the Register will therefore need to be maintained and updated accordingly.

From another perspective, the goal of the Register is also to make the registered information available to all ICAO Member States and Organizations, thanks to appropriate distribution and publication methods. This is similar to the status of Document 7910 (Location Indicators) which is periodically updated and published by ICAO, while an electronic version is also available.

Both of these tasks need to be handled centrally by the ICAO Secretariat. For this purpose, procedures need to be developed, to facilitate the Secretariat’s role of managing the ICAO Register of AMHS MDs and Addressing Information. The support of WGN is requested to develop these procedures, which will contribute to the smooth and efficient implementation of AMHS world wide.

5. CONCLUSIONS AND RECOMMENDATION

The ACP WGN is invited to note the information provided and to develop an appropriate set of procedures for the management, update and publication of this Register information.

APPENDIX A

The following is a list of States and Organization who have responded to the State Letter SL 54/1-03/39 before 14th October 2003.

Argentina	Mexico
Austria	Netherlands
Azerbaijan	New Zealand
Bahrain	Nigeria
Belgium	Norway
Bolivia	Pakistan
Brazil	Panama
Cameroon	Papua New Guinea
Chile	Philippines
China	Portugal
Colombia	Republic of Moldova
Croatia	Romania
Cuba	Russian Federation
Cyprus	Saudi Arabia
Denmark	Slovenia
Egypt	South Africa
Estonia	Spain
France	Sweden
Germany	Switzerland
Greece	Tunisia
Hungary	Uganda
Iran, Islamic Republic of	United Arab Emirates
Japan	United Kingdom
Jordan	United States
Kenya	Uruguay
Malaysia	Eurocontrol
Maldives	
Mauritius	

APPENDIX B:

Table of PRMDs and Addressing Schemes used of the ICAO Register of AMHS MDs and Addressing Information

See following pages.

Items in **bold** identify information explicitly provided by States. Default and pre-declared values have been left in normal font characters.

Table of PRMDs and Addressing Schemes used

(listed in alphabetical order by Nationality Letters)

(update including information received until 14th October 2003)

State		AMHS Address Specification					
Name	Nationality Letters or Designator	Country-name attribute	ADMD-name attribute	PRMD-name attribute	Addressing scheme	ATN Directory naming-context	Comments
French Southern and Antarctic Lands (France)	AF	XX	ICAO	AF	XF		
Solomon Islands	AG	XX	ICAO	AG	XF		
Nauru	AN	XX	ICAO	AN	XF		
Papua New Guinea	AY	XX	ICAO	AY	XF		
Greenland (Denmark)	BG	XX	ICAO	BG	XF		
Iceland	BI	XX	ICAO	BI	XF		
Canada	C*	XX	ICAO	C	XF		
Algeria	DA	XX	ICAO	DA	XF		
Benin	DB	XX	ICAO	DB	XF		
Burkina Faso	DF	XX	ICAO	DF	XF		
Ghana	DG	XX	ICAO	DG	XF		
Côte d'Ivoire	DI	XX	ICAO	DI	XF		
Nigeria	DN	XX	ICAO	DN	XF		
Niger	DR	XX	ICAO	DR	XF		
Tunisia	DT	XX	ICAO	DT	CAAS		see Table Tunisia
Togo	DX	XX	ICAO	DX	XF		
Belgium	EB	XX	ICAO	BELGIUM	XF		incomplete reply to State Letter
Eurocontrol	EBBD	XX	ICAO	EUROCONTROL-CFMU	CAAS		see Table Eurocontrol-CFMU
Germany	ED	XX	ICAO	GERMANY	CAAS		see Table Germany
Estonia	EE	XX	ICAO	EE	XF		
Finland	EF	XX	ICAO	EF	XF		
United Kingdom	EG	XX	ICAO	EG	CAAS		will provide information later
Netherlands	EH	XX	ICAO	EH	CAAS		
Ireland	EI	XX	ICAO	EI	XF		
Denmark	EK	XX	ICAO	EK	XF		
Luxembourg	EL	XX	ICAO	EL	XF		
Norway	EN	XX	ICAO	EN	XF		
Poland	EP	XX	ICAO	EP	XF		
Sweden	ES	XX	ICAO	ES	XF		
Germany	ET	XX	ICAO	GERMANY	CAAS		see Table Germany
Europe	EU	XX	ICAO	EU	XF		
Eurocontrol	EUCB	XX	ICAO	EUROCONTROL-CFMU	CAAS		see Table Eurocontrol-CFMU
Eurocontrol	EUCH	XX	ICAO	EUROCONTROL-CFMU	CAAS		see Table Eurocontrol-CFMU
Latvia	EV	XX	ICAO	EV	XF		
Lithuania	EY	XX	ICAO	EY	XF		
South Africa	FA	XX	ICAO	FA	XF		
Botswana	FB	XX	ICAO	FB	XF		
Congo	FC	XX	ICAO	FC	XF		
Swaziland	FD	XX	ICAO	FD	XF		
Central African Republic	FE	XX	ICAO	FE	XF		
Equatorial Guinea	FG	XX	ICAO	FG	XF		
Ascension I. (U.K.)	FH	XX	ICAO	FH	XF		
Mauritius	FI	XX	ICAO	FI	XF		
British Indian Ocean Territory	FJ	XX	ICAO	FJ	XF		
Cameroon	FK	XX	ICAO	FK	CAAS		incomplete CAAS information
Zambia	FL	XX	ICAO	FL	XF		
Comores	FMC*	XX	ICAO	FMC	XF		
Mayotte (France)	FMCZ	XX	ICAO	FMCZ	XF		
Reunion (France)	FME*	XX	ICAO	FME	XF		
Madagascar	FM	XX	ICAO	FM	XF		
Angola	FN	XX	ICAO	FN	XF		
Gabon	FO	XX	ICAO	FO	XF		
Sao Tome and Principe	FP	XX	ICAO	FP	XF		
Mozambique	FQ	XX	ICAO	FQ	XF		
Seychelles	FS	XX	ICAO	FS	XF		
Chad	FT	XX	ICAO	FT	XF		

State		AMHS Address Specification					
Name	Nationality Letters or Designator	Country-name attribute	ADMD-name attribute	PRMD-name attribute	Addressing scheme	ATN Directory naming-context	Comments
Zimbabwe	FV	XX	ICAO	FV	XF		
Malawi	FW	XX	ICAO	FW	XF		
Lesotho	FX	XX	ICAO	FX	XF		
Namibia	FY	XX	ICAO	FY	XF		
Dem. Republic of the Congo	FZ	XX	ICAO	FZ	XF		
Mali	GA	XX	ICAO	GA	XF		
Gambia	GB	XX	ICAO	GB	XF		
Canary Islands (Spain)	GC	XX	ICAO	AENA	CAAS		see Table Aena
Spain	GE	XX	ICAO	AENA	CAAS		see Table Aena
Sierra Leone	GF	XX	ICAO	GF	XF		
Guinee-Bissau	GG	XX	ICAO	GG	XF		
Liberia	GL	XX	ICAO	GL	XF		
Morocco	GM	XX	ICAO	GM	XF		
Sénégal	GO	XX	ICAO	GO	XF		
Mauritanie	GQ	XX	ICAO	GQ	XF		
Western Sahara	GS	XX	ICAO	GS	XF		
Guinea	GU	XX	ICAO	GU	XF		
Cape Verde	GV	XX	ICAO	GV	XF		
Ethiopia	HA	XX	ICAO	HA	XF		
Burundi	HB	XX	ICAO	HB	XF		
Somalia	HC	XX	ICAO	HC	XF		
Djibouti	HD	XX	ICAO	HD	XF		
Egypt	HE	XX	ICAO	HE	CAAS		
Eritrea	HH	XX	ICAO	HH	XF		
Kenya	HK	XX	ICAO	HK	XF		will provide information later
Libyan Arab Jamahiriya	HL	XX	ICAO	HL	XF		
Rwanda	HR	XX	ICAO	HR	XF		
Sudan	HS	XX	ICAO	HS	XF		
United Rep. of Tanzania	HT	XX	ICAO	HT	XF		
Uganda	HU	XX	ICAO	HU	XF		
United States	K*	XX	ICAO	K	XF		
Albania	LA	XX	ICAO	LA	XF		
Bulgaria	LB	XX	ICAO	LB	XF		
Cyprus	LC	XX	ICAO	LC	CAAS		incomplete reply to State Letter
Croatia	LD	XX	ICAO	LD	CAAS		see Table LD
Spain	LE	XX	ICAO	AENA	CAAS		see Table Aena
France	LF	XX	ICAO	FRANCE	CAAS		see Table France
Eurocontrol	LFPYZMF	XX	ICAO	EUROCONTROL-CFMU	CAAS		see Table Eurocontrol-CFMU
Greece	LG	XX	ICAO	GREECE	CAAS		see Table Greece
Hungary	LH	XX	ICAO	LH	XF		
Italy	LI	XX	ICAO	LI	XF		
Slovenia	LJ	XX	ICAO	LJ	XF		
Czech Republic	LK	XX	ICAO	LK	XF		
Israel	LL	XX	ICAO	LL	XF		
Malta	LM	XX	ICAO	LM	XF		
Monaco	LN	XX	ICAO	LN	XF		
Austria	LO	XX	ICAO	AUSTRIA	CAAS		see Table Austria
Portugal (Madeira & Açores)	LP	XX	ICAO	PORTUGAL	CAAS		see Table Portugal
Bosnia-Herzegovina	LQ	XX	ICAO	LQ	XF		
Romania	LR	XX	ICAO	LR	XF		
Switzerland	LS	XX	ICAO	SUISSE	CAAS		see Table Suisse
Turkey	LT	XX	ICAO	LT	XF		
Republic of Moldova	LU	XX	ICAO	LU	XF		
Areas Under the Control of the Palestinian Authority	LV	XX	ICAO	LV	XF		
The former Yugoslav Republic of Macedonia	LW	XX	ICAO	LW	XF		
Gibraltar (United Kingdom)	LX	XX	ICAO	LX	XF		
Federal Republic of Yugoslavia	LY	XX	ICAO	LY	XF		
Slovakia	LZ	XX	ICAO	LZ	XF		
Turks and Caicos Islands (U.K.)	MB	XX	ICAO	MB	XF		

State		AMHS Address Specification					
Name	Nationality Letters or Designator	Country-name attribute	ADMD-name attribute	PRMD-name attribute	Addressing scheme	ATN Directory naming-context	Comments
Dominican Republic	MD	XX	ICAO	MD	XF		
Guatemala	MG	XX	ICAO	MG	XF		
Honduras	MH	XX	ICAO	MH	XF		
Jamaica	MK	XX	ICAO	MK	XF		
Mexico	MM	XX	ICAO	MM	CAAS		
Nicaragua	MN	XX	ICAO	MN	XF		
Panama	MP	XX	ICAO	MP	XF		incomplete reply to State Letter
Costa Rica	MR	XX	ICAO	MR	XF		
El Salvador	MS	XX	ICAO	MS	XF		
Haiti	MT	XX	ICAO	MT	XF		
Cuba	MU	XX	ICAO	MU	CAAS		
Cayman Islands (U.K.)	MW	XX	ICAO	MW	XF		
Bahamas	MY	XX	ICAO	MY	XF		
Belize	MZ	XX	ICAO	MZ	XF		
Cook Islands	NC	XX	ICAO	NC	XF		
Fiji	NF	XX	ICAO	NF	XF		
Tonga	NFT*	XX	ICAO	NFT	XF		
Kiribati	NG	XX	ICAO	NG	XF		
Tuvalu	NGF*	XX	ICAO	NGF	XF		
Niue Island (New Zealand)	NI	XX	ICAO	NI	XF		
Iles Wallis and Futuna (France)	NL	XX	ICAO	NL	XF		
American Samoa	NST*	XX	ICAO	NST	XF		
Samoa	NS	XX	ICAO	NS	XF		
French Polynesia	NT	XX	ICAO	NT	XF		
Vanuatu	NV	XX	ICAO	NV	XF		
New Caledonia (France)	NW	XX	ICAO	NW	XF		
New Zealand	NZ	XX	ICAO	NZ	XF		
Afghanistan	OA	XX	ICAO	OA	XF		
Bahrain	OB	XX	ICAO	OB	CAAS		See Table OB
Saudi Arabia	OE	XX	ICAO	OE	XF		
Iran (Islamic Rep of)	OI	XX	ICAO	OI	XF		
Jordan	OJ	XX	ICAO	OJ	CAAS		See Table OJ
Kuwait	OK	XX	ICAO	OK	XF		
Lebanon	OL	XX	ICAO	OL	XF		
United Arab Emirates	OM	XX	ICAO	OM	XF		
Oman	OO	XX	ICAO	OO	XF		
Pakistan	OP	XX	ICAO	OP	XF		replied "nil input to offer"
Iraq	OR	XX	ICAO	OR	XF		
Syrian Arab Rep.	OS	XX	ICAO	OS	XF		
Qatar	OT	XX	ICAO	OT	XF		
Yemen	OY	XX	ICAO	OY	XF		
Alaska (U.S.)	PA	XX	ICAO	PA	XF		
Alaska (U.S.)	PF	XX	ICAO	PA	XF		
Mariana Islands (U.S.)	PG	XX	ICAO	PG	XF		
Hawai (U.S.)	PH	XX	ICAO	PH	XF		
Johnston Island (U.S.)	PJ	XX	ICAO	PJ	XF		
Marshall Islands (U.S.)	PK	XX	ICAO	PK	XF		
Kiribati	PL	XX	ICAO	PL	XF		
Line Islands (U.S.)	PL	XX	ICAO	PL	XF		
Midway Islands (U.S.)	PM	XX	ICAO	PM	XF		
Alaska (U.S.)	PO	XX	ICAO	PA	XF		
Alaska (U.S.)	PP	XX	ICAO	PA	XF		
Micronesia (Federated States of)	PT	XX	ICAO	PT	XF		
Palau Islands (U.S.)	PTR*	XX	ICAO	PTR	XF		
Wake Island (U.S.)	PW	XX	ICAO	PW	XF		
China	RC	XX	ICAO	RC	XF		
Japan	RJ	XX	ICAO	RJ	XF		
Rep. of Korea	RK	XX	ICAO	RK	XF		
Japan	RO	XX	ICAO	RJ	XF		
Philippines	RP	XX	ICAO	RP	XF		replied "no objection to recom."
Argentina	SA	XX	ICAO	ARGENTINA	CAAS		See Table Argentina

State		AMHS Address Specification					
Name	Nationality Letters or Designator	Country-name attribute	ADMD-name attribute	PRMD-name attribute	Addressing scheme	ATN Directory naming-context	Comments
Brazil	SB	XX	ICAO	SB	CAAS		See Table SB
Chile	SC	XX	ICAO	SC	XF		
Ecuador	SE	XX	ICAO	SE	XF		
Falklands Islands (U.K.)	SF	XX	ICAO	SF	XF		
Paraguay	SG	XX	ICAO	SG	XF		
Colombia	SK	XX	ICAO	SK	XF		will provide information later
Bolivia	SL	XX	ICAO	SL	XF		
Suriname	SM	XX	ICAO	SM	XF		
French Guyana	SO	XX	ICAO	SO	XF		
Peru	SP	XX	ICAO	SP	XF		
Uruguay	SU	XX	ICAO	SU	XF		
Venezuela	SV	XX	ICAO	SV	XF		
Guyana	SY	XX	ICAO	SY	XF		
Antigua and Barbuda	TA	XX	ICAO	TA	XF		
Barbados	TB	XX	ICAO	TB	XF		
Dominica	TD	XX	ICAO	TD	XF		
French Antilles	TF	XX	ICAO	TF	XF		
Grenada	TG	XX	ICAO	TG	XF		
Virgin Islands (U.S.)	TI	XX	ICAO	TI	XF		
Puerto Rico (U.S.)	TJ	XX	ICAO	TJ	XF		
St. Kitts and Nevis	TK	XX	ICAO	TK	XF		
St. Lucia	TL	XX	ICAO	TL	XF		
Aruba (Netherlands, Kingdom of the)	TNCA	XX	ICAO	TNCA	XF		
Netherlands Antilles	TN	XX	ICAO	TN	XF		
Anguilla I. (U.K.)	TQ	XX	ICAO	TQ	XF		
Montserrat I. (U.K.)	TR	XX	ICAO	TR	XF		
Trinidad and Tobago	TT	XX	ICAO	TT	XF		
Virgin Islands (U.K.)	TU	XX	ICAO	TU	XF		
St. Vincent and the Grenadines	TV	XX	ICAO	TV	XF		
Bermuda (U.K.)	TX	XX	ICAO	TX	XF		
Kazakstan	UA	XX	ICAO	UA	XF		
Kyrgyzstan	UAF*	XX	ICAO	UAF	XF		
Azerbaijan	UB	XX	ICAO	UB	XF		
Russian Federation	UE	XX	ICAO	RUSSIA	CAAS		see Table Russia
Georgia	UG	XX	ICAO	UG	XF		
Armenia	UGE*	XX	ICAO	UGE	XF		
Georgia	UGGG	XX	ICAO	UG	XF		
Armenia	UGGN	XX	ICAO	UGE	XF		
Georgia	UGM*	XX	ICAO	UG	XF		
Georgia	UGS*	XX	ICAO	UG	XF		
Russian Federation	UH	XX	ICAO	RUSSIA	CAAS		see Table Russia
Russian Federation	UI	XX	ICAO	RUSSIA	CAAS		see Table Russia
Ukraine	UK	XX	ICAO	UK	XF		
Russian Federation	UL	XX	ICAO	RUSSIA	CAAS		see Table Russia
Belarus	UM	XX	ICAO	UM	XF		
Russian Federation	UMKK	XX	ICAO	RUSSIA	CAAS		see Table Russia
Russian Federation	UN	XX	ICAO	RUSSIA	CAAS		see Table Russia
Russian Federation	UO	XX	ICAO	RUSSIA	CAAS		see Table Russia
Russian Federation	UR	XX	ICAO	RUSSIA	CAAS		see Table Russia
Russian Federation	US	XX	ICAO	RUSSIA	CAAS		see Table Russia
Tadjikistan	UTD*	XX	ICAO	UTD	XF		
Turkmenistan	UTA*	XX	ICAO	UTA	XF		
Uzbekistan	UT	XX	ICAO	UT	XF		
Russian Federation	UU	XX	ICAO	RUSSIA	CAAS		see Table Russia
Russian Federation	UW	XX	ICAO	RUSSIA	CAAS		see Table Russia
India	VA	XX	ICAO	VA	XF		
Sri Lanka	VC	XX	ICAO	VC	XF		
Cambodia	VD	XX	ICAO	VD	XF		
India	VE	XX	ICAO	VA	XF		
Bangladesh	VG	XX	ICAO	VG	XF		
Hong Kong (China)	VH	XX	ICAO	HONGKONG	CAAS		see Table Hongkong
India	VI	XX	ICAO	VA	XF		

State		AMHS Address Specification					
Name	Nationality Letters or Designator	Country-name attribute	ADMD-name attribute	PRMD-name attribute	Addressing scheme	ATN Directory naming-context	Comments
Lao People's Dem. Rep.	VL	XX	ICAO	VL	XF		
Macau (China)	VM	XX	ICAO	VM	XF		
Nepal	VN	XX	ICAO	VN	XF		
India	VO	XX	ICAO	VA	XF		
Bhutan	VQ	XX	ICAO	VQ	XF		
Maldives	VR	XX	ICAO	VR	CAAS		see Table Maldives
Thailand	VT	XX	ICAO	VT	XF		
Viet Nam	VV	XX	ICAO	VV	XF		
Myanmar	VY	XX	ICAO	VY	XF		
Indonesia	WA	XX	ICAO	WA	XF		
Malaysia	WB	XX	ICAO	WB	XF		
Brunei Darussalam	WBAK	XX	ICAO	WBSB	XF		
Brunei Darussalam	WBSB	XX	ICAO	WBSB	XF		
Indonesia	WI	XX	ICAO	WA	XF		
Malaysia (Peninsular)	WM	XX	ICAO	WM	XF		
East Timor	WP	XX	ICAO	WP	XF		
Indonesia	WR	XX	ICAO	WA	XF		
Singapore	WS	XX	ICAO	WS	XF		
Australia	Y*	XX	ICAO	Y	XF		
China	ZB	XX	ICAO	ZB	XF		
China	ZG	XX	ICAO	ZB	XF		
China	ZH	XX	ICAO	ZB	XF		
Dem. People's Rep. of Korea	ZK	XX	ICAO	ZK	XF		
China	ZL	XX	ICAO	ZB	XF		
Mongolia	ZM	XX	ICAO	ZM	XF		
China	ZP	XX	ICAO	ZB	XF		
China	ZS	XX	ICAO	ZB	XF		
China	ZU	XX	ICAO	ZB	XF		
China	ZW	XX	ICAO	ZB	XF		
China	ZY	XX	ICAO	ZB	XF		

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